## **WEST Search History**

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DATE: Monday, September 19, 2005

Hide?	Set Name	Query	Hit Count			
	DB=PGPB, USP	T,USOC,EPAB,JPAB,DWPI,TDBD; PLUF	R=YES; OP=ADJ			
	L9	5088510.pn.	2			
	L8	5088510	23			
	L7	4854337.pn.	2			
	L6	4854337	46			
	L5	5533540	18			
DB=JPAB; PLUR=YES; OP=ADJ						
	L4	JP-11090366-A.did.	1			
	L3	JP-11090366-A.did.	1			
DB = PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR = YES; OP = ADJ						
	L2	6085764	5			
	L1	5533540.pn.	2			

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L2: Entry 5 of 5 File: DWPI Apr 6, 1999

DERWENT-ACC-NO: 1999-281744

DERWENT-WEEK: 200108

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TITLE: Wafer washing apparatus using ultrasonic waves - has ultrasonic oscillator which vibrates cleaning liquid and vibration horns that vibrate wafer in two

directions

INVENTOR: KOBAYASHI, K; KUBOTA, T; KUDO, J; YAMAGUCHI, M; YOSHIHARA, S

PATENT-ASSIGNEE:

ASSIGNEE CODE TDK CORP DENK

PRIORITY-DATA: 1997JP-0210196 (July 22, 1997)

		Search Selected	Search ALL C	lear			
PATENT-FAMILY:							
	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC		
	JP 11090366 A	April 6, 1999		005	B08B003/12		
	<u>US 6178974 B1</u>	January 30, 2001		000	B08B003/12		
	SG 69322 A1	December 21, 1999		000	B08B003/12		
	US 6085764 A	July 11, 2000		000	B08B003/12		
APPLICATION-DATA:							
PUB-NO		APPL-DATE	APPL-NO	D:	ESCRIPTOR		
JP	11090366A	May 26, 1998	1998JP-0160012				
US	6178974B1	June 17, 1998	1998US-0098751	D	iv ex		
US	6178974B1	May 17, 2000	2000US-0572227				
US	6178974B1		US <u>6085764</u>	D	iv ex		
SG	69322A1	June 23, 1998	1998SG-0001485				
US	6085764A	June 17, 1998	1998US-0098751				
		•					

INT-CL (IPC):  $B06 \ B \ 1/18$ ;  $B08 \ B \ 3/12$ ;  $H01 \ L \ 21/304$ 

ABSTRACTED-PUB-NO: JP 11090366A

BASIC-ABSTRACT:

NOVELTY - A wafer (15) is immersed in cleaning liquid (11) in a washing tank (10). An ultrasonic vibrator (12) in the tank, vibrates the cleaning liquid and

ultrasonic vibration horns (13,14) vibrate the wafer in two directions. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for wafer washing method.

USE - In cleaning wafer by ultrasonic waves.

ADVANTAGE - Cleaning effect is improved greatly, and the polish sediment and the scum of wafer are removed efficiently. DESCRIPTION OF DRAWING(S) - The figure shows the block structure of washing machine. (10) Washing tank; (11) Cleaning liquid; (12) Ultrasonic vibrator; (13,14) Ultrasonic vibration horns; (15) Wafer. ABSTRACTED-PUB-NO:

US 6085764A EQUIVALENT-ABSTRACTS:

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US 6178974B

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CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: WAFER WASHING APPARATUS ULTRASONIC WAVE ULTRASONIC OSCILLATOR VIBRATION CLEAN LIQUID VIBRATION HORN VIBRATION WAFER TWO DIRECTION

DERWENT-CLASS: P43 U11 V06

EPI-CODES: U11-C06A1B; V06-B03; V06-D;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1999-211339

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